



## PATENT ABSTRACTS OF JAPAN

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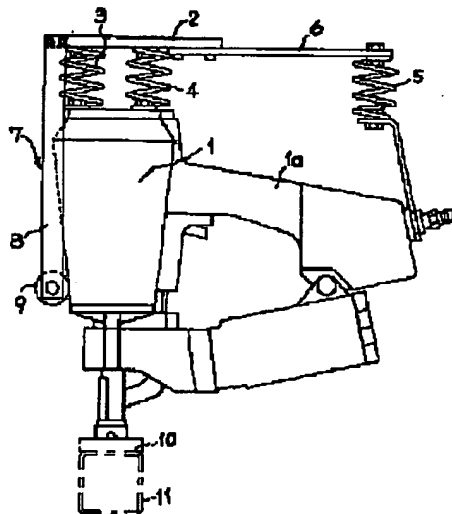
**B25C 1/00****B25D 17/24****B27F 7/02**(21) Application number: **05252497**(22) Date of filing: **14.09.93**(71) Applicant: **OPT ENG KK**(72) Inventor:  
**OUCHI MASATOSHI**  
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**MIZUTA SHUICHI****(54) SHOCK ABSORBER IN ROBOT FOR TOOL  
GENERATING IMPACT****(57) Abstract:**

**PURPOSE:** To obtain an excellent shock absorbing effect to not only a vertical hitting, but also to a horizontal hitting and an oblique hitting, by connecting a tool generating impacts to a robot through springs, and abutting a support member extended from the robot to the side surface of the tool.

**CONSTITUTION:** A box nailing machine 1 is connected to an installing plate 2 installed to a robot through springs 3 to 5, but when it is held only by the springs 3 to 5, the perpendicularity cannot be maintained by the positional relation of the center of gravity of the box nailing machine 1 and the springs, and the box nailing machine may be inclined. Therefore, an auxiliary member 6 is extended from the installing plate 2, and a spring 5 is placed between the auxiliary member 6 and the end of the handle 1a of the box nailing machine 1. Furthermore, a supporting member 7 to abut to the side surface of the box nailing machine 1 is provided, and when the box nailing machine 1 is inclined or made level, the posture of the box nailing machine 1 is maintained by the supporting member 7. The supporting member 7 is made in the constitution that a wheel 9 is

journalled to the front end of an arm 8 fixed to the installing plate 2, and the wheel 9 is abutted to the side surface of the box nailing machine 1.

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